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Applicant: FORD FRANCE S. A.

B.P. 307

F-92506 Rueil-Malmaison Cédex(FR)

㉔ FR

Applicant: FORD MOTOR COMPANY

County of Wayne

Dearborn, MI 48120(US)

㉔ SE

㉒ Inventor: Milenkovic, Vellko

1222 Highway 42

Sturgeon Bay Wisconsin 54235(US)

Inventor: Huang, Bernard

3326 Yellowstone Drive

Ann Arbor Michigan 48015(US)

㉑ Applicant: FORD MOTOR COMPANY LIMITED

Eagle Way

Brentwood Essex CM13 3BW(GB)

㉔ GB

Applicant: FORD-WERKE

AKTIENGESELLSCHAFT

Werk Köln-Niehl Henry-Ford-Strasse

Postfach 60 40 02

D-5000 Köln 60(DE)

㉔ DE

㉔ Representative: Messulam, Alec Moses et al

A. Messulam & Co. 24 Broadway

Leigh on Sea Essex SS9 1BN(GB)

㉔ Method and system for a robot path.

⑤ A method and system for correcting a programmed robot manipulator path to compensate for variability of the location of a succession of workpieces. Includes the steps of sensing and measuring path offsets between the idealized workpiece location and the actual location of the workpiece at a plurality of waypoints, converting the measured offsets into translations and rotations of the workpiece by multiplying a matrix comprised of the offset measurements by a previously prepared conversion matrix, correcting the coordinates of waypoints within the preprogrammed path by applying the translations and rotations to such coordinates, transforming the corrected preprogrammed path coordinates into machine control coordinates, and providing a controller for the robot manipulator with such machine control coordinates.

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| DOCUMENTS CONSIDERED TO BE RELEVANT | | | CLASSIFICATION OF THE APPLICATION (Int. Cl. 5) | | | | | | |
|---|---|--|--|-----------------|----------------------------------|----------|-----------|------------|------------|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | | | | | | | |
| A | EP-A-0 062 244 (K.K. YASKAWA DENKI SEISAKUSHO) * Pages 2-3; figure 1 * --- | 1-7 | G 05 B 19/403 B 25 J 9/18 | | | | | | |
| A | IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. IE-34, no. 1, February 1987, New York, US, pages 1-4; MOCHEZUKI et al.: "Unpositioned workpieces handling robot with visual and force sensors" * The whole document * --- | 1-7 | | | | | | | |
| A, D | 13TH INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ROBOTS, vol. 2, 17th April 1983, Chicago, US, pages 1631-1647; MILENKOVIC et al.: "Kinematics of major robot linkage" * The whole document * ---- | 1-7 | | | | | | | |
| | | | TECHNICAL FIELDS SEARCHED (Int. Cl. 5) | | | | | | |
| | | | G 05 B B 25 J | | | | | | |
| <p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>07-03-1990</td> <td>MOYLE J.F.</td> </tr> </table> | | | | Place of search | Date of completion of the search | Examiner | THE HAGUE | 07-03-1990 | MOYLE J.F. |
| Place of search | Date of completion of the search | Examiner | | | | | | | |
| THE HAGUE | 07-03-1990 | MOYLE J.F. | | | | | | | |
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| <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure F : intermediate document</p> | | | | | | | | | |